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DATE MAILED: 03/12/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,042	11/13/2001	Shigeru Nakayama	4641-61595	1236	
7590 03/12/2004			EXAMINER		
KLARQUIST	SPARKMAN, LLP	TURNER, SAMUEL A			
One World Trac	le Center		<del></del>		
Suite 1600		•	ART UNIT	PAPER NUMBER	
121 S.W. Salmo	on Street	2877			
Portland, OR	97204				

Please find below and/or attached an Office communication concerning this application or proceeding.

					W-M		
		Application	on No.	Applicant(s)			
Office Action Summary		10/003,04	-2	NAKAYAMA ET AL.			
		Examiner		Art Unit			
		Samuel A.		2877			
Period fo	The MAILING DATE of this communic or Reply	ation appears on the	cover sheet with the c	correspondence addres	is		
A SHOTHE I  - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply we ply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	CATION.  f 37 CFR 1.136(a). In no evenication.  days, a reply within the statutory period will apply and will, by statute, cause the app	ent, however, may a reply be tin utory minimum of thirty (30) day II expire SIX (6) MONTHS from ication to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this commu ED (35 U.S.C. § 133).	nication.		
Status							
1)[	Responsive to communication(s) filed	I on					
	•	b) This action is n	on-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice	e under <i>Ex parte Qu</i>	ayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims						
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-14</u> is/are pending in the appear of the above claim(s) is/are Claim(s) <u>1-7</u> is/are allowed. Claim(s) <u>8 and 10-14</u> is/are rejected. Claim(s) <u>9</u> is/are objected to. Claim(s) are subject to restriction	e withdrawn from co					
Applicati	on Papers						
10)⊠	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	a) accepted or b) tion to the drawing(s) b the correction is requir	e held in abeyance. Se ed if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1			
Priority (	ınder 35 U.S.C. § 119						
a)l	Acknowledgment is made of a claim for All b) Some * c) None of:  1. Certified copies of the priority of Some * c) Certified copies of the priority of Some * c) None of:  2. Certified copies of the priority of Some * c) Copies of the certified copies of application from the Internation See the attached detailed Office actions	documents have been documents have been of the priority documental Bureau (PCT Rules)	n received. In received in Applicatents have been receive ents have been receive 17.2(a)).	tion No red in this National Sta	ge		
Attachmen	t(s) te of References Cited (PTO-892)		4) Interview Summar	y (PTO-413)			
2)  Notice  No	te of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date <u>4-29-02</u> .		Paper No(s)/Mail D		2)		

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#### **DETAILED ACTION**

#### Title

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

## **Drawings**

The drawings are objected to because figures 1 and 5 contain numerals which are informal(hand written). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

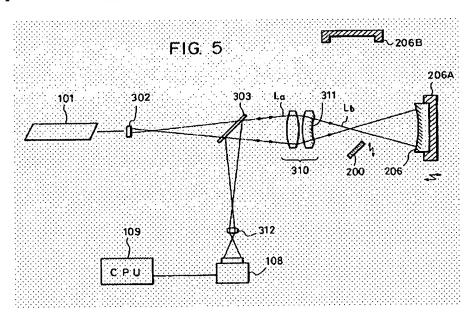
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 8, 10-12, and 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Ohtsuka(5,485,275).

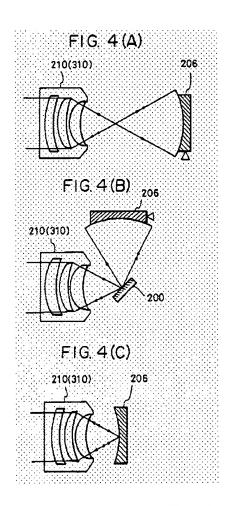
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Ohtsuka teaches a method for measuring the errors of a shape measuring interferometer comprising a laser source(101), reference surface(311), test surface(206), CCD detector(108), and a CPU(109). See figure 5. When the test element is in the first position, see figure 4a, the interferometer measures the test surface. When the test element is in the second position, see figure 4b, the interferometer measures the test surface at a 90° deflection. When the test element is in the third position, see figure 4c, the test surface is not measured, instead a reference interference signal is generated. In the third position the test element acts as an ideal reference standard. In claims 8 and 14 the reference standard meets the claimed limitations of the verification standard.

Data collected from the first and second measuring positions is used to determine the rotationally asymmetric errors while data collected from the first and third positions is used to determine the rotationally symmetric errors.



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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohtsuka(5,485,275).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the optical profilometer, as taught by Ohtsuka, to the process of testing and manufacturing optical elements. This is the purpose of such instruments.

### Allowable Subject Matter

Claims 1-7 are allowed in view of the prior art of record. Claim 1 includes a test surface, a reference standard, and a verification standard all of which are used in combinations to determine the rotationally asymmetric errors and the rotationally symmetric errors.

Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 9 specifically defines the verification standard used.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Turner whose phone number is **571**-**272**-**2432**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached on **571-272-2415**.

The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is **571**-**272-1562**.

Any other inquiry of a technical nature, and all inquiries of a general nature or any patent term adjustment should be directed to TC2800 Customer Service Office whose telephone number is **571-272-1585**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel A. Turner Primary Examiner

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